Department of Commerce, and certain low technology items were de-licensed for ISRO units that remained in the Entity List. Subsequently, three other units of ISRO also have been removed from the entity list.

(c) and (d) Following the discussions on NSSP, a Technology Safeguards Agreement related to the launch of US licensed satellites from India has been made ready for signature between India and USA. Discussion on Launch Services Agreement have commenced.

(e) No, Sir.

Amount earned by ISRO

1131. SHRI K. RAMA MOHANA RAO:
SHRI RAMA MUNI REDDY SIRIGIREDDY:

Will the PRIME MINISTER be pleased to state:

(a) the efforts Government are making to capture 10 percent share in the global market for launch vehicles and related services;

(b) the details of services being provided;

(c) the amount that has been earned by ISRO during 2004-05 with regard to launch vehicle and related services; and

(d) the details of countries which have evinced interest in using services on CARTOSAT?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) Indian launch vehicle programme is mainly intended to meet the domestic requirements. After meeting internal requirements residual capacity is made available for commercial launches for other countries. Considering the current market scenario and heavy competition, maximum of 5% of global market share can be targeted for launch vehciles and related services.

In terms of efforts for capturing the market, the Government set up Antrix Corporation Ltd., (Antrix) under the Department of Space, which has been marketing the launch services from India's Polar Satellite Launch Vehicle (PSLV) and Geo-synchronous Satellite Launch Vehicle (GSLV). Antrix has been in touch with the potential customers in different countires such as Canada, Germany, Belgium, Sweden, France, UK, Singapore, Indonesia, Italy, etc., to offer the launch services to the extent capacity is available after meeting national requirement for launches. In order to

provide greater flexibility for commercial launches, launch vehicle PSLV is also designed to carry multiple satellites. Promotional efforts are also undertaken through participation in appropriate exhibitions from time to time in order to create greater awareness.

(b) The data from Indian Remote Sensing Setellites are marketed globally by Antrix which is the commercial arm of Department of Space. Antrix also markets leasing of transponders from INSAT satellites for television and VSAT services providers and is also providing launch and mission support services using ISRO's facilities.

(c) In 2004-05, ISRO through contracts made by Antrix with foreign customers received payments amounting to Rs. 10.54 crores towards launch services on PSLV and Rs. 2.61 crores towards mission support services.

(d) USA, Germany, France, Russia, Japan, Taiwan, China, Myanmar, Algeria, Venezuela, UAE, Iran, Sudan, etc., have evinced interest in using services of CARTOSAT.

Technology transfer technique

1132. SHRIMATI MOHSINA KIDWAI:
SHRI VIJAY J. DARDA:

Will the PRIME MINISTER be pleased to state:

(a) whether ISRO has designed and developed a Supersonic Combustion Ramjet—a positive step forward in its research for reduced launch costs, if so, the perspective planning for flight test on integrated SCRAMJET propulsion system;

(b) what is the financial outlay for this proejct for the year 2006 and 2007; and

(c) whether the technology utilized is "all-indigenously develped" or it has been adopted through the technology transfer technique?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) As part of the advanced technology initiative in the area of Air-Breathing propulsion, a series of ground tests on a supersonic combustion ramjet engine have been successfully